AMENDMENTS TO THE CLAIMS

- 1.(original) A solid-state image pick-up device comprising, on a semiconductor substrate, a plurality of light receiving sensor sections, a vertical transfer path formed close to each of the light receiving sensor sections, and a channel stopper provided between the adjacent vertical transfer paths and formed by an insulating layer having a trench structure, wherein a conductive substance to which a predetermined voltage is applied is buried in the insulating layer.
- 2.(original) The solid-state image pick-up device according to claim 1, wherein the predetermined voltage is a negative voltage if a signal charge is an electron, and is a positive voltage if the signal charge is a hole.
- 3.(original) The solid-state image pick-up device according to claim 1, wherein the predetermined voltage is a pulse having an opposite phase to that of a read pulse to be applied to a transfer electrode of the vertical transfer path.
- 4.(currently amended) The solid-state image pick-up device according to [any of claims 1 to 3] claim 1, wherein a diffusion region having an opposite conductivity type to that of the light receiving sensor section is formed in a lowermost part of the channel stopper.
- 5.(original) The solid-state image pick-up device according to claim 4, wherein the conductive substance is also doped with a doped impurity in the diffusion region, and the conductive substance and the diffusion region are thus set in a connecting state.

- 6.(currently amended) The solid-state image pick-up device according to [any of claims 1 to 5] claim 1, wherein the conductive substance is a polycrystalline silicon.
- [6.] $\overline{7}$. (currently amended) The solid-state image pick-up device according to [any of claims 1 to 3] $\underline{\text{claim 1}}$, wherein the conductive substance is a polycrystalline silicon.
- [7.] <u>8.</u> (currently amended) The solid-state image pick-up device according to $\underline{\text{claim}}$ 4, wherein the conductive substance is a polycrystalline silicon.
- [8.] $\underline{9}$. (currently amended) The solid-state image pick-up device according to $\underline{\text{claim}}$ 5, wherein the conductive substance is a polycrystalline silicon.